

Abstract of the Disclosure

5 An interference cancellation receiver reduces the multiple access interference in a CDMA system. The receiver includes a demodulator for receiving a residual signal or a received signal from a calling terminal as an over-sample unit baseband spread signal and down-sampling the baseband spread signal on a chip basis to output a demodulation signal, a regenerator for performing a bit decision for the demodulation signal, regenerating signals through the channelization and scrambling and converting the regenerated signals to signals on the over-sample basis, an adder for summing up the over-sample unit signals, a filter for filtering the summed-up signal to output a band spread signal, a subtractor for subtracting the band spread signal from the received signal to output the residual signal and a delay for keeping timing with the residual signal by delaying the chip unit signals outputted from the regenerator.